

PO No	Supplier	Line Item No	Ref No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit
PO039320	ACI001-VC	1	1	Net 30	M304B0.625X3.000	304 Bar .625 X 3.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft				12	3/21/2018	12		S053333	Stock	3/21/2018	\$ 29.73 / ft
		2			D6201P	T Extrusion 4X4X3/8				20		20		S053642	Stock	3/21/2018	\$ 23.00 / ft
		3			MT-A513-T-0.750W0.085	A513 Seamless Alloy Steel Round Tubing 0.75"dia. x 0.085" Wall				40		46		S053643	Stock	3/21/2018	\$ 3.60 / ft
		8			MT-4140QT-R1.125	AISI 4140 Quenched & Tempered Steel Round Bar 1.125" Dia. : AISI 4140 Q&T Round Bar : MTL: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT				20		20		S053644	Stock	3/21/2018	\$ 7.75 / ft
		11			M6061T6B1.000X5.000	6061T6 Bar 1.000 X 5.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				24		24		S053645	Stock	3/21/2018	\$ 19.79 / ft
		17			M303R0.625	303 Round Bar 0.625" : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft				12		12		S053646	Stock	3/21/2018	\$ 7.93 / ft
										Total:	128		134				

Plex 3/21/2018 4:04 PM Dart.Dubois.Pascal



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO039320

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO039320
PO Date: 3/14/18
Due Date: 3/21/18
Purchase Order Revision:
Revision Date:
Ship-To Contact: Lavoie, Chantal Phone: clavoie@dartaero.com
Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments: quote no. sou0092083 sou0091947

REvised



Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M304B0.625X3.000		304 Bar .625 X 3.00 MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	3/21/18	12 ft	0 ft	12 ft	\$29.7275/ft	\$356.73
2	D6201P		T Extrusion 4X4X3/8	Firmed	3/21/18	20 ft	0 ft	20 ft	\$23.00/ft	\$460.00
3	MT-A513-T-0.750W0.085		A513 Seamless Alloy Steel Round Tubing 0.75"dia. x 0.085" Wall	Firmed	3/21/18	40 ft	0 ft	40 ft	\$3.60/ft	\$144.00
4	M304S11GA		304/316 0.125 Sheet MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240	Firmed	3/21/18	64 sf	0 sf	64 sf	\$12.2298/sf	\$782.71
5	M304S18GA		304/316 .050 Sheet MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240	Firmed	3/21/18	128 sf	0 sf	128 sf	\$5.355/sf	\$685.44

Line Item Note: as per dwg d6201 rev. a
w/o no 174333

0/1
2/0

MAR 21 2018

3/1

MAR 21 2018

4/1

MAR 21 2018

5/1

MAR 21 2018

6/1

MAR 21 2018

7/1

MAR 21 2018

8/1

MAR 21 2018

9/1

MAR 21 2018

10/1

MAR 21 2018

11/1

MAR 21 2018

12/1

MAR 21 2018

13/1

MAR 21 2018

14/1

MAR 21 2018

15/1

MAR 21 2018

16/1

MAR 21 2018

17/1

MAR 21 2018

18/1

MAR 21 2018

19/1

MAR 21 2018

20/1

MAR 21 2018

21/1

MAR 21 2018

22/1

MAR 21 2018

23/1

MAR 21 2018

24/1

MAR 21 2018

25/1

MAR 21 2018

26/1

MAR 21 2018

27/1

MAR 21 2018

28/1

MAR 21 2018

29/1

MAR 21 2018

30/1

MAR 21 2018

31/1

MAR 21 2018

32/1

MAR 21 2018

33/1

MAR 21 2018

34/1

MAR 21 2018

35/1

MAR 21 2018

36/1

MAR 21 2018

37/1

MAR 21 2018

38/1

MAR 21 2018

39/1

MAR 21 2018

40/1

MAR 21 2018

41/1

MAR 21 2018

42/1

MAR 21 2018

43/1

MAR 21 2018

44/1

MAR 21 2018

45/1

MAR 21 2018

46/1

MAR 21 2018

47/1

MAR 21 2018

48/1

MAR 21 2018

49/1

MAR 21 2018

50/1

MAR 21 2018

51/1

MAR 21 2018

52/1

MAR 21 2018

53/1

MAR 21 2018

54/1

MAR 21 2018

55/1

MAR 21 2018

56/1

MAR 21 2018

57/1

MAR 21 2018

58/1

MAR 21 2018

59/1

MAR 21 2018

60/1

MAR 21 2018

61/1

MAR 21 2018

62/1

MAR 21 2018

63/1

MAR 21 2018

64/1

MAR 21 2018

65/1

MAR 21 2018

66/1

MAR 21 2018

67/1

MAR 21 2018

68/1

MAR 21 2018

69/1

MAR 21 2018

70/1

MAR 21 2018

71/1

MAR 21 2018

72/1

MAR 21 2018

73/1

MAR 21 2018

74/1

MAR 21 2018

75/1

MAR 21 2018

76/1

MAR 21 2018

77/1

MAR 21 2018

78/1

MAR 21 2018

79/1

MAR 21 2018

80/1

MAR 21 2018

81/1

MAR 21 2018

82/1

MAR 21 2018

83/1

MAR 21 2018

84/1

MAR 21 2018

85/1

MAR 21 2018

86/1

MAR 21 2018

87/1

MAR 21 2018

88/1

MAR 21 2018

89/1

MAR 21 2018

90/1

MAR 21 2018

91/1

MAR 21 2018

92/1

MAR 21 2018

93/1

MAR 21 2018

94/1

MAR 21 2018

95/1

MAR 21 2018

96/1

MAR 21 2018

97/1

MAR 21 2018

98/1

MAR 21 2018

99/1

MAR 21 2018

100/1

MAR 21 2018

101/1

MAR 21 2018

102/1

MAR 21 2018

103/1

MAR 21 2018

104/1

MAR 21 2018

105/1

MAR 21 2018

106/1

MAR 21 2018

107/1

MAR 21 2018

108/1

MAR 21 2018

109/1

MAR 21 2018

110/1

MAR 21 2018

111/1

MAR 21 2018

112/1

MAR 21 2018

113/1

MAR 21 2018

114/1

MAR 21 2018

115/1

MAR 21 2018

116/1

MAR 21 2018

117/1

3/15/2018

PURCHASE ORDER

Items											
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price	
6	M2024T3S.032		2024-T3 .032 Sheet MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209	Firmed	3/21/18	48 sf	0 sf	48 sf	\$4.780625/sf	\$229.47	
7	M2024T3S.040		2024-T3 .040 Sheet MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209	Firmed	3/21/18	96 sf	0 sf	96 sf	\$5.601875/sf	\$537.78	
8	MT-4140QT-R1.125		AISI 4140 Quenched & Tempered Steel Round Bar 1.125" Dia. AISI 4140 Q&T Round Bar MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	3/21/18	20 ft	0 ft	20 ft	\$7.75/ft	\$155.00	
9	M1018R0.313		1018-1025 Round Bar .313 MATERIAL: AISI 1018- 1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108 receive ft	Firmed	3/21/18	12 ft	0 ft	12 ft	\$0.2141666/ft	\$2.57	
10	M6061T6B2.500X01.500		6061-T6 Bar 2.50 X 1.50 MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	3/21/18	24 ft	0 ft	24 ft	\$14.36125/ft	\$344.67	
11	M6061T6B1.000X5.000		6061T6 Bar 1.000 X 5.000 MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	3/21/18	24 ft	0 ft	24 ft	\$19.7925/ft	\$475.02	

Plex 3/15/18 11:10 AM dart.lavoie.chantal

2/5

PURCHASE ORDER

3/15/2018

Line Item	Part	Supplier Part No	Items		Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
			Description								
12	M6061T6B1.250X03.000	6061T6 Bar 1.250 X 3.000	Firmed	3/21/18	12 ft	0 ft	12 ft	\$14.361666/ft	\$172.34	12	MAR 19 2018 DAS 11 9-89
13	M6061T6B1.000X02.000	6061-T6 Bar 1.00 X 2.00	Firmed	3/21/18	40 ft	0 ft	40 ft	\$7.46275/ft	\$298.51	40	MAR 19 2018 DAS 11 9-89
14	M6061T6B1.000X06.000	6061T6 Bar 1.00 X 6.00	Firmed	3/21/18	24 ft	0 ft	24 ft	\$19.451666/ft	\$466.84	24	MAR 19 2018 DAS 11 9-89
15	M304R0.375	304 Round Bar 0.375	Firmed	3/21/18	36 ft	0 ft	36 ft	\$1.188/ft	\$42.77	36	MAR 19 2018 DAS 11 9-89
16	M303H0.500	303 Hex Bar .500	Firmed	3/27/18	36 ft	0 ft	36 ft	\$9.817777/ft	\$353.44		
17	M303R0.625	303 Round Bar 0.625"	Firmed	3/21/18	12 ft	0 ft	12 ft	\$7.92666/ft	\$95.12	12	MAR 21 2018 DAS 11 9-89

3/15/2018

PURCHASE ORDER

Line Item	Part	Supplier Part No	Items							
			Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
18	M6061T6R1.125		6061 Round Bar 1.125 MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	3/21/18	12 ft	0 ft	12 ft	\$3.453333/ft	\$41.44
19	M6061T6R0.250		6061-T6 Round Bar 0.250" MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	3/21/18	20 ft	0 ft	20 ft	\$0.1565/ft	\$3.13
20	M6061T6R1.500		6061-T6 Round Bar 1.50 MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	3/21/18	20 ft	0 ft	20 ft	\$5.521/ft	\$110.42
21	M6061T6R2.000		6061T6 Round Bar 2.00 MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	3/21/18	20 ft	0 ft	20 ft	\$9.8135/ft	\$196.27

Grand Total: \$5,953.67

Order Notes

CL

Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents
- A048 counterfeit parts avoidance, detection, mitigation and disposition program
- A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 3/15/18 11:10 AM dart.lavoie.chantal

DELIVERY - CLIENT

Copy C000078782



ACTER OUELLETTE INC.

935, Boul. du Havre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction

F-M

Delivery Route

5

Page

1

Customer N° CLI0001056
Date 2018/03/15

Delivery date 2018/03/21

Your order N° 039320

Salesman Josianne Bourdon

Carrier OUELLETTE VALLEYFIELD

Credit Termes Net 30 Days

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	1	S	C	OUT
1 TUBE MEC 0.750 OD X .083 NS TME-0750083 <i>2 X 20' R/L HEAT: 15C1472 LINE 3 ACT14376-MM-19/03</i>	23.64	40.00	PL_SPI				2x20'	4	6	1	MAR 21 2018 DAS 11 9-89
2 ROUND 4140 HEAT TREAT 1 1/8 NS R4140-118 <i>1 X 20' R/L HEAT: 75065609 LINE 8 ACT14377-JG-19/03</i>	67.60	20.00	PL_SCLB				20				
3 FLAT ALU 1 X 5 6061-T6 * FAL-15 <i>2 X 12' HEAT: 18010071A LINE 12 ACT14372-RY-19/03</i>	140.98	24.00	PL_SCLB				2x12'	24			MAR 21 2018 DAS 11 9-89

NIR : R-109516-6



7953 Washington Woods Dr.,
Dayton, OH 45459
Phone: (937)573-4675 Fax: (702)826-4126

Material Test Report

Date	MTR No.
4/30/2018	0000056808

TEST CERTIFICATE ACC TO DIN 50049-3.1 B/EN: 10204: 3.1

Part Number: 87-15955-17

PO Number: 87-15955

Description: A513T5-14; SRA; DOM; Grade=1020; Category=CARBON WELDED; Round; OD=0.750"; ID=0.584"; (WT=0.083"); Deburred; Length=240" to 288"

Product: TUBE

Ends: Deburred

Heat No: 15C1472

Steel Grade: 1020

DIMENSIONS	TOLERANCE				NUMBER	QUANTITY	
	MM	IN	-VE	+VE		METER / FT	WEIGHT TON
OD	19.050	0.750	0.0000	0.0050	IN	1	1,598.371 5,244.000
ID	14.834	0.584	0.0050	0.0000	IN	6,096.000 - 7,315.200	MM 240.000 - 288.000 IN
WT	2.108	0.083	0.0000	0.0000	IN		

CHEMICAL ANALYSIS					MECHANICAL PROPERTIES			
ELEMENTS	UOM	MIN	MAX	PRODUCT	Y.S	U.T.S	% E	HARDNESS
Carbon (C)	%	0.1800	0.2300	0.1900	MIN	55,000	65,000	10.00
Manganese (Mn)	%	0.3000	0.6000	0.4300	MAX			75.00
Silicon (Si)	%			0.0170	MILL	67,830	76,010	20.00
Aluminum (Al)	%			0.0480	PROD			80.00
Phosphorus (P)	%		0.0350	0.0120				
Sulfur (S)	%		0.0350	0.0100				
Chromium (Cr)	%							
Nickel (Ni)	%							
Molybdenum (Mo)	%							
Vanadium (V)	%							
Copper (Cu)	%							
Columbium (CB)	%							
Calcium (Ca)	%							
Titanium (Ti)	%							
Nitrogen (N)	%							
Boron (B)	%							
Zirconium (Zr)	%							
Antimony (Sb)	%							
Tin (Sn)	%							

100% EDDY CURRENT TESTING- E309

PASSED

FLATTENING TEST

2/3% OF OD 1/3% OF OD PASSED

FLARING TEST

15% OF ID PASSED

STRAIGHTNESS

PASSED (1/1000 MM)

Remarks:

Melted In: INDIA

Produced In: INDIA

Product is free of weld repair and has not come in contact with Mercury or any of its components.

We hereby Certify that the material described above conforms to Specification and Purchase Order.

Bill Johnston

Bill Johnston

Quality Co-ordinator

Any questions, Please email: TestReports@aaris-llc.com

+8782
CERTIFICATE OF TEST DART
CERTIFICAT D'ESAIS

P0.14377

Page 01 of 02

Certification Date
19-MAR-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

AC00014377

Invoice Number
S704941

PART NUMBER/NUMÉRO DE PIÈCE

SOLD TO:	ACIER OUELLETTE INC.	SHIP TO:	ACIER OUELLETTE INC.
VENDU À:	DIVISION SALABERRY DE VALENTIN	EXPIRED:	DIVISION SALABERRY DE VALLEYFIELD
	935, BOUL. DU HAVRE		935, BOUL. DU HAVRE
	SALABERRY-DE- VALLEYFIELD QC J6S 5L1		SALABERRY-DE- VALLEYFIELD QC J6S

#10251
Description: 4140/4142 HR HT BAR STRESS FREE 269/321 BHN

~~1-1/8 RD X 20' R/L~~

~~HEAT: 75065609~~

Line Total: 68 LB

ITEM: 506426

Specifications:

ASTM A193 GR B7 16

ASTM A434 GR BC 06

ASME SA193 GR B7

CHEMICAL ANALYSIS

C	MN	P	S	SI	NI	CR	MO
0.41	0.87	0.0090	0.028	0.23	0.18	0.90	0.18
CU	SN	AL	V	NB			
0.17	0.007	0.021	0.003	0.003			

RCPT: R196179

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	135.0	146.0	20.4	65.0	296

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcris du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES

Joanne Despres

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST

CERTIFICAT D'ESAIS

Page 02 of 02

Certification Date
19-MAR-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT
AC00014377

Invoice Number
S704941

PART NUMBER/NUMÉRO DE PIÈCE

SOLD TO:	ACIER OUELLETTE INC.	SHIP TO:	ACIER OUELLETTE INC.
VENDU À:	DIVISION SALABERRY DE VALLEYFIELD	EXPÉDIÉ À:	DIVISION SALABERRY DE VALLEYFIELD
	935, BOUL. DU HAVRE SALABERRY-DE- VALLEYFIELD	QC J6S 5L1	935, BOUL. DU HAVRE SALABERRY-DE- VALLEYFIELD
	QC J6S		QC J6S

Description: 4140/4142 HR HT BAR STRESS FREE 269/321 BHN
1-1/8 RD X 20' R/L Line Total: 68 LB

HEAT: 75065609 ITEM: 506426

END-QUENCH HARDENABILITY (JOMINY - RC)

1	2	3	4	5	6	7	8	9	10	12	14	16	18	20
57	57	57	57	57	57	55	54	53	51	49	47	45	44	43
24	28	32												
41	39	37												

GRAIN SIZE : 5 - 8

MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL

THERMAL TREATMENT: OK

AUSTENIZE 1650 0.60

QUENCH 0 0.00

TEMPER 1415 0.60

MACRO: OK

WATER

COMMENTS

melted and mfg in usa
reduction ratio 68.5:1

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcris du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CO. 78782 DART

PO, 14372N

CAN ART

ALUMINUM EXTRUSION L.P.

Material Test Report

Manifest: 336306

Ticket:
5584121

Our Order: 882700 - 1 Cust P.O.: 4500858361-RY003

Die: ES63347

Part: 160001273

Alloy Temper: 6061 T6511

Description: 1.000 x 5.000

Print Date: 2/21/18

Chemical Composition

CastNum	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OtherEach	OtherTotal	Maximum
18010071A	0.54	0.15	0.20	0.01	0.80	0.08	0.01	0.01	0.05	0.15	

Mechanical Properties

Strength ksi

Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield 2% offset	Elongation 2" gage length
77485	18010071A	A11	2/11/18	43.07	39.64	15.3

Applicable Specifications: ASTMB221-14 AMS-QQ-A200/8A

Country of Origin: ONTARIO, CANADA

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.



Evan Eng, Quality Assurance Manager

70707
CERTIFICATE OF TEST DART
CERTIFICAT D'ESAIIS

70,14377

Page 01 of 02

Certification Date
19-MAR-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
S704940

AC00014377

PART NUMBER/NUMÉRO DE PIÈCE

508804

SOLD TO: ACIER OUELLETTE INC. SHIP TO: ACIER OUELLETTE INC.
VENDU À: DIVISION SALABERRY DE VALEYFIELD DIVISION SALABERRY DE VALLEYFIELD
935, BOUL. DU HAVRE 935, BOUL. DU HAVRE
SALABERRY-DE- VALLEYFIELD QC J6S 5L1 SALABERRY-DE- VALLEYFIELD QC J6S 5L1

Description: 303 CF ANN BAR ASTM A582

5/8 RD X 12 X 12
HEAT. 6174

Line Total: 14 LB

ITEM: 508804

Specifications:
AMS 5640 TYPE 1 U

ASTM A582 M17

SAE AMS 5640U 07

CHEMICAL ANALYSIS

C	SI	MN	P	S	CR	MO	NI
0.06	0.37	1.74	0.04	0.34	17.55	0.47	8.04
CU	N						
0.73	0.073						

RCPT: R286325

COUNTRY OF ORIGIN : INDIA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR MPa	ULT TEN MPa	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	433.0	658.0	49.0	55.0	202

MATERIAL IS FREE FROM MERCURY CONTAMINATION

THERMAL TREATMENT: OK

HEAT TREATMENT: MATERIAL SOL. ANNEALED AT 1050 C SOAKING FOR
1 HOUR & WATER QUENCHED

CORROSION: OK

MACRO: OK

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcris du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. Nous certifions que le matériel couvert par ce rapport sera conforme aux exigences spécifiques indiquées ci-haut. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut. The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport n'a pas été en contact avec le mercure.

Joanne Despres

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESAI

Page 02 of 02

Certification Date
19-MAR-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT
AC00014377

Invoice Number
S704940

PART NUMBER/NUMÉRO DE PIÈCE
508804

SOLD TO:	ACIER OUELLETTE INC. DIVISION SALABERRY DE VALL	SHIP TO/EXPÉDIÉ À:	ACIER OUELLETTE INC. DIVISION SALABERRY DE VALLEYFIELD
VENDU À:	935, BOUL. DU HAVRE SALABERRY-DE- VALLEYFIELD	QC J6S 5L1	935, BOUL. DU HAVRE SALABERRY-DE- VALLEYFIELD
	QC J6S		QC J6S
Description: 303 CF ANN BAR ASTM A582 5/8 RD X 12' R/L		Line Total: 14 LB	
HEAT: 6174		ITEM: 508804	

COMMENTS

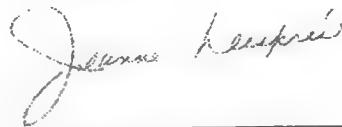
country of origin: india

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcris du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with anyone while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303R0.625
 DATE: MAR 22 2018

PO / BATCH NO.: 039320/5023646

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.625
 THICKNESS RECEIVED: 0.625
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>A370m A582</i>
CORRECT THICKNESS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>Heat # 6174</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____
DATE: <u>9-22 MAR 22 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS ROUND BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION: ASTM A582
PART NUMBER: M303RD.ODD
WHERE "D.ODD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M303RD 750

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 9.75" ROUND BAR = M303R9 750

卷之三

RECEIVED
2010-02-02

5

3

2

15

5

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 1606146 B1.000X5.000 PO / BATCH NO: 039320/5053645
 DATE: MAR 22 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 24
 QUANTITY INSPECTED: 24
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000
 THICKNESS RECEIVED: 1.000
 SHEET SIZE ORDERED: 11x11
 SHEET SIZE RECEIVED: 11x11

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>Astm B221</i>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>Part # 18010071A</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY:	<u>DAS</u> <u>11</u>	SIGNED OFF BY:	
DATE:	<u>9-8 MAR 22 2018</u>	DATE:	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-220/8 OR AMS-QQ-A-220/8 (OR AMS 4160)
OR ASTM B211 OR ASME R22

SPECIFICATION:

PART NUMBER:

M6061T6B T TTT X | www.wwww
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAB = M6061T6B1 000X12 000

RELEASED
2009-05-05
AM

REMOVE DDA-250111 OPTION- REFORMAT NOTES, ADD ASIM BZ11BZ21(2N DT-1)				CP	09 07 13
NEW ISSUE				DS	01 06 08
REV				BY	DATE
DESIGN				DS	
DRAWN				A.S	DRAWING NO M606176B
CHECKED				A.S	TITLE
MFG APPR.				APPROVED	6001-16 BAR
DE APPR.					
					DATE 09 07 13
DART AEROSPACE LTD				REV B	
HAWKESBURY, ONTARIO, CANADA				SHEET 1 OF 1	
				SCALE	NTS

卷之三

4

6

३८

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-A513-T-0.72W0.085 PO / BATCH NO.: 039320/5053643
 DATE: MAR 22 2018

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 46
 QUANTITY INSPECTED: 46
 QUANTITY REJECTED: 0

THICKNESS ORDERED: W0.085
 THICKNESS RECEIVED: W0.085
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/> N <input type="radio"/>	<u>A513-T-0.72</u>
CORRECT THICKNESS	Y <input checked="" type="radio"/> N <input type="radio"/>	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/> N <input type="radio"/>	<u>Heat # 15C1472</u>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N <input type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> <u>9-89</u> DATE: <u>MAR 22 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

1	2	3	4	5	6	7	8
REV	DESCRIPTION	ECN #	DATE	BY	APPROVED		
A	NEW RELEASE	17-655	17-09-06	VM	VM		
B	TYPE 5 ADDED; TEMPLATE UPDATED	17-700	17-12-13	VM	VM		

SPECIFICATION CONTROL DRAWING

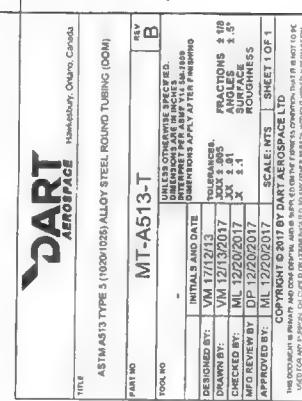
PURCHASE MATERIAL: ASTM A513 TYPE 5 (1020/1026) SEAMLESS ALLOY STEEL ROUND TUBING (100M)

SPECIFICATION.

147 *SEAGATE DRIVE*

WHERE D,DDD IS OUTSIDE DIAMETER IN INCHES
WHERE T,TTT IS WALL THICKNESS IN INCHES

EG. 3/4" ROUND TUBING WITH 120" WALL THICKNESS = MT-A513-T-0750W0120



MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-A513-T-1.125W.188 PO / BATCH NO.: 039300/5053688
 DATE: MAR 22 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 21
 QUANTITY INSPECTED: 21
 QUANTITY REJECTED: 0

THICKNESS ORDERED: W0.188
 THICKNESS RECEIVED: W0.188
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> <input type="checkbox"/> N	<i>As per A513-T5</i>
CORRECT THICKNESS	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> <input type="checkbox"/> N	<i>Hard#C357969</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> DATE: <u>9-89</u> <u>MAR 22 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

1	2	3	4	5	6	7	8
REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED	VM	WM
A	NEW RELEASE	17-855	17/09/06	VM	WM		
B	TYPE 5 ADDED. TEMPLATE UPDATED	17-790	17/12/13	VM	ML		

PURCHASE MATERIAL: ASTM A513 TYPE 5 (1020/1026) SEAMLESS ALLOY STEEL ROUND TUBING (DOM)

SPECIFICATION:

ASTM A513 TYPE 5

PART NUMBER:

MT-A513-T-[D.DDD]W[T.TTT]

WHERE D.DDD IS OUTSIDE DIAMETER IN INCHES

WHERE T.TTT IS WALL THICKNESS IN INCHES

EG. 3/4" ROUND TUBING WITH .120" WALL THICKNESS = MT-A513-T-0.750W0.120

	
DART AEROSPACE Mississauga, Ontario, Canada	
ASTM A513 TYPE 5 (1020/1026) ALLOY STEEL ROUND TUBING (DOM)	
PART NO.	REV
MT-A513-T	B
<small>TOOL NO. - UNLESS OTHERWISE SPECIFIED: INTERVALS FOR ASME Y14.5M GENERATIONS APPLY AFTER FEBRUARY 1, 1984</small>	
<small>INITIALS AND DATE: VM 17/12/13</small>	
<small>TELEGRAMS: VM 12/13/2017 XX 4-05 ML 12/20/2017 X 2-1</small>	
<small>FRACTIONS: 1/16 SURFACE ROUGHNESS</small>	
<small>APPROVED BY: DP 12/20/2017 VM 12/20/2017 SCALE: INTS. SHEET 1 OF 1</small>	
<small>Copyright © 2017 by DART Aerospace Ltd. No portion of this document may be reproduced without written permission from DART Aerospace Ltd.</small>	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140 QT R1.125
 DATE: MAR 22 2018

PO / BATCH NO.: 039320/5053644

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 20'
 QUANTITY INSPECTED: 20'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.125
 THICKNESS RECEIVED: 1.125
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	<u>Y</u> N	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u> N	<i>Not use with Dart tooling only PD.</i>
CORRECT THICKNESS	<u>Y</u> N	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u> N	<i>Heat # 75065609</i>
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> N	
CORRECT M# ON THE MATERIAL	<u>Y</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS / PD</u> <u>11</u>	SIGNED OFF BY: _____
DATE: <u>9-89 MAR 22 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL:	ASTM A29, AMS 6349, AMS 6382, AMS 6529
SPECIFICATION:	MT-4140-R-[D,DDD] WHERE "D,DDD" = DIAMETER IN INCHES
PART NUMBER:	EX. 4" ROUND BAR = MT-4140-R-4.000

1	2	3	4	5	6	7	8
REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED		
A	NEW ISSUE	12-20-40	4-20-40				

PURCHASE MATERIAL :		AISI 4140 ROUND BAR MINIMUM ROCKWELL C = 20 Rc MAXIMUM ROCKWELL C = 38 Rc	
SPECIFICATION:		ASTM A29, AMS 6349, AMS 6382, AMS 6529	
PART NUMBER:		MT-4140-R-[D,DDD] WHERE "D,DDD" = DIAMETER IN INCHES EX. 4" ROUND BAR = MT-4140-R-4.000	
DART AEROSPACE Hanover, Ontario, Canada DART AEROSPACE LTD. <small>THE DOCUMENT CONTAINS TRADE SECRET INFORMATION OWNED BY DART AEROSPACE LTD. IT IS FOR THE USE OF DART AEROSPACE LTD. AND ITS AFFILIATES AND PARTNERS ONLY. IT MAY NOT BE COPIED, REPRODUCED, OR DISCLOSED TO ANYONE OUTSIDE DART AEROSPACE LTD. IN WHOLE OR IN PART.</small>			
ANSI 4140 ROUND BAR TITLE: AISI 4140 ROUND BAR PART NO: MT-4140-R REV: A PAGE NO: 1 DRAWING NUMBER: 1 DRAWN BY: VM 17/12/13 CHECKED BY: VM 12/12/2017 MFG REVIEW BY: M 12/12/2017 APPROVED BY: DP 12/20/2017 APPROVED BY: ML 12/20/2017 DATE: 12/20/2017 SHEET OF 1 <small>UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES. TOLERANCES PER ASME Y14.5M-2009 DRAWINGS APPLY AFTER FINISHING NOTES AND DATE</small>			
8	7	6	5
4	3	3	3